

## WARNING

Keep out of reach of children

# Zampro<sup>®</sup>

**A systemic and protectant fungicide for the control of downy mildew on onions and late blight on potatoes.**

Contains 300 g/litre ametoctradin and 225 g/litre dimethomorph in the form of a suspension concentrate.

# 5 L

**READ LABEL COMPLETELY BEFORE OPENING OR USING**

Registered to and distributed by:  
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 **BASF**  
The Chemical Company

## Hazard Classification

6.1D, 6.9B, 9.1C, 9.3C



### WARNING

**HARMFUL.** Harmful if swallowed. May cause liver damage from repeated oral exposure at high doses. **HARMFUL TO AQUATIC LIFE WITH LONG LASTING EFFECTS.** Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent aquatic sites. **HARMFUL TO TERRESTRIAL VERTEBRATES.**

### PRECAUTIONS

**STORAGE:** Keep out of reach of children. Store in the closed, original container in a dry, well-ventilated area, as cool as possible, away from food and feedstuffs. **DO NOT** store in direct sunlight. Stores containing 1000 litres or more of this product require emergency response plans and are subject to signage. When stored appropriately this product should show no significant degradation for three years from the date of manufacture. Contact your supplier for further information about the use of any product that is older than this.

**TRANSPORT:** Do **NOT** carry this product on a passenger service vehicle.

**SPILLAGE:** Prevent further spillage and product from entering waterways. Dike and contain the spill with inert material (sand, earth, etc.) and transfer liquid and solid diking material to separate containers labeled for disposal. Wash affected area (hard surface) with water and detergent. Absorb and collect washings and place in the same sealable container as the spilled material. Dispose of the waste safely in suitable landfill. Remove contaminated clothing and wash affected skin areas with soap and water. Wash clothing before reuse.

**PERSONAL PROTECTION:** Applicators and other handlers should wear cotton overalls buttoned to the neck and wrist, a washable hat and suitable gloves.

**GENERAL SAFETY AND HYGIENE MEASURES:** Avoid contact with eyes, skin or clothing. Avoid inhalation of spray mist. **DO NOT** eat, drink or smoke while using this product. Remove protective clothing and wash hands and exposed skin thoroughly with soap and water before meals and after work. Wash protective clothing after each days use. Store work clothing separately.

**USE:** Apply with well-maintained and accurately calibrated equipment. **DO NOT** spray directly onto or into water. **DO NOT** allow spray drift outside the target area. Clean out application equipment thoroughly after use. Dispose of equipment wash waters on suitable ground away from surface water and crops. **DO NOT** contaminate surface or ground water by cleaning of equipment or disposing of equipment wash waters or rinsate.

**RE-ENTRY PERIOD:** **DO NOT** allow entry into treated areas during the restricted-entry interval (REI) of 24 hours. When prior entry is necessary for work, wear protective clothing as indicated above.

**NOTE:** Storage, application and record keeping must be as described in the current version of the New Zealand Standard for the Management of Agrichemicals NZS8409.

**DISPOSAL:** Container: Ensure container is completely empty. Triple rinse empty container and add residue to the spray tank. Recycle through Agrecovery (0800 247 326, [www.agrecovery.co.nz](http://www.agrecovery.co.nz)).

Product: Dispose of this product only by using according to the label or at an approved landfill.

Wastes resulting from the use of this product may be disposed of on-site or at an approved waste disposal facility. Do **NOT** burn product. Do **NOT** contaminate surface water with chemical or empty container. Do **NOT** reuse this container for any other purpose.

### FIRST AID

If swallowed, do **NOT** induce vomiting. Rinse mouth. For advice, contact the National Poisons Centre 0800 POISONS (0800 764 766) or a doctor immediately. If skin or hair contact occurs, remove contaminated clothing and wash skin and hair with soap and running water. Do **NOT** scrub skin. If in eyes, rinse out cautiously for several minutes. If skin or eye irritation persists get medical advice. If inhaled, remove to fresh air and keep at rest in a position comfortable for breathing.

### GENERAL INFORMATION

ZAMPRO is an Oomycete fungicide, which has protectant and anti-sporulant activity against downy mildew on onions and late blight on potatoes. It contains two active ingredients, ametoctradin, a triazolo-pyrimidylamine (QxI) fungicide, and dimethomorph, a carboxylic acid amine (CAA) fungicide. Preventive applications optimize disease control. To maximize disease control, apply ZAMPRO in a regularly scheduled protective spray program and use in a rotation program with other fungicides.

### Mode of Action

ZAMPRO contains two active ingredients, ametoctradin and dimethomorph. Ametoctradin is a strong inhibitor of mitochondrial respiration in complex III (cytochrome bc1) of Oomycetes fungi. The exact binding site is not yet known. Dimethomorph inhibits cell wall synthesis of Oomycetes fungi.

### Resistance Management

ZAMPRO contains ametoctradin, a triazolo-pyrimidylamine fungicide from the Qxl (Quinone binding site unknown) MODE OF ACTION group **Group 45 Fungicide**, and dimethomorph, a cinnamic acid amide fungicide from the Carboxylic Acid Amides (CAA) MODE OF ACTION group **Group 40 Fungicide**. Resistance to this fungicide could develop from excessive use. To minimise this risk use strictly in accordance with the label instructions and resistance management strategies that exist for any fungus listed on the label. ZAMPRO should be used in a programme that incorporates fungicides with different modes of action to Qxl and CAA fungicides. To maintain the performance of ZAMPRO in the field, Do NOT exceed the total number of applications of ZAMPRO per season or the total number of consecutive applications stated in the Directions for Use. Refer to the NZCPR web site for more detailed information ([www.nzpps.org/resistance/index.php](http://www.nzpps.org/resistance/index.php)).

### DIRECTIONS FOR USE

**It is an offence to use this product on animals.**

The rates recommended are for high volume spraying to the point of run off. For concentrate spraying adjust dilution rate accordingly. Do NOT apply in less than 200 litres of water per hectare.

Crop	Disease	Rate per Ha	Critical Comments
Onions	Downy mildew ( <i>Peronospora destructor</i> )	800 ml/ha in 200 to 500 litres of water per hectare	<p>Apply on a 7-10 day schedule in a protectant programme alternating with fungicides with different modes of action such as mancozeb. Use the shorter interval when heavy infection pressure occurs. Apply spray to obtain thorough and complete plant coverage.</p> <p><i>Resistance Management</i> To limit the potential for development of resistance use no more than four (4) applications of ZAMPRO per season.</p> <p>DO NOT make more than three (3) consecutive applications of ZAMPRO before alternating to a labelled fungicide with a different mode of action such as mancozeb.</p>
Potatoes	Late blight ( <i>Phytophthora infestans</i> )	800 ml/ha in 200 to 500 litres of water per hectare	<p>Apply on a 7-14 day schedule in a protectant programme alternating with fungicides with different modes of action such as mancozeb. Use the shorter 7-10 day interval when heavy infection pressure occurs and the 10-14 day interval when pressure is low. Apply spray to obtain thorough and complete plant coverage.</p> <p>ZAMPRO has no efficacy against early blight (<i>Alternaria solani</i>), for the control of this disease add a suitable fungicide such as mancozeb or <i>difenoconazole</i> at label rates.</p> <p><i>Resistance Management</i> To limit the potential for development of resistance use no more than four (4) applications of ZAMPRO per season. DO NOT make more than three (3) consecutive applications of ZAMPRO before alternating to a labelled fungicide with a different mode of action such as mancozeb.</p>

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